

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for reducing bus traversal in a media server comprising a host processor, ~~a at least one~~ network interface, and a storage subsystem comprising one or more storage devices, the host processor and ~~the at least one~~ network interface being connected to a first input-output bus, the storage subsystem being connected to a second input-output bus, the first and second input-output buses being connected via a controller, the method comprising:

~~providing a hot swappable adaptable cache inside said media server, said adaptable cache hot swappably connected to the first input output bus, said adaptable cache comprising a data interface, core logic configured to dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server, and electronic storage media;~~

receiving a request for a media asset via a network, said request being received by ~~the~~ a network interface;

receiving the request at ~~the~~ an adaptable cache at least partially inside said media server, said adaptable cache hot-swappably connected to the first input-output bus, said adaptable cache comprising a data interface, core logic configured to dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server, and electronic storage media;

processing the request by the adaptable cache, wherein if the requested media asset is found on the electronic storage media, the media asset is returned to the user via the first bus ~~and not the second bus~~, and wherein if the requested media asset is not found on the electronic storage media, the media asset is accessed from the storage subsystem and returned to the user via the second bus and first bus, ~~and~~;

monitoring, by the adaptable cache, requests for media assets;

determining, by the adaptable cache, whether select media assets should be cached;

transferring, by the adaptable cache, said select media assets from said one or more storage devices to the electronic storage media; and,

notifying, by the adaptable cache, at least one requesting application that the adaptable cache can accept future requests for said select media assets.

~~wherein the adaptable cache monitors requests for media assets, determines that select media assets should be cached, transfers said select media assets from one or more storage devices to the electronic storage media, and notifies a requesting application that the adaptable cache can accept future requests for said select media assets.~~

2. (Original) The method of claim 1, wherein the request is received at the adaptable cache via the host processor.

3-7. (Canceled)

8. (Currently Amended) The method of claim 1, wherein ~~the adaptable cache monitors requests for media assets and if it is determined that the media should be cached, the adaptable cache notifies the storage subsystem to disregard requests to deliver the media.~~

9. (Original) The method of claim 1, wherein if the requested media asset is not found on the electronic storage media, the adaptable cache stores the requested media asset on the electronic storage media.

10. (Original) The method of claim 1, wherein the adaptable cache integrates into the media server via an expansion card slot.

11. (Currently Amended) The method of claim 1, wherein the adaptable cache integrates with native communications busses and protocols ~~existing on~~ used in the media server.

12. (Currently Amended) The method of claim 1, wherein the adaptable cache utilizes the busses and protocols ~~existing on~~ used in the media server.

13. (Currently Amended) A method for improving transactional performance in a media server comprising a host processor, ~~a~~ at least one network interface, and a storage subsystem comprising one or more storage devices, the host processor and the ~~at least one~~ network interface being connected to a first input-output bus, the storage subsystem being

connected to a second input-output bus, the first and second input-output buses being connected via a controller, the method comprising:

~~providing a hot swappable adaptable cache inside said media server, said adaptable cache hot swappably connected to the second input output bus, said adaptable cache comprising a data interface, a core logic, and electronic storage media, and enabled to:~~

~~dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server;~~

~~determine whether to retrieve and store data from the storage subsystem based on the algorithms and/or heuristics;~~

~~alter the storage size of the electronic storage media without disrupting the operation of the media server; and~~

~~retrieve data from the storage subsystem using its own data interface;~~

~~receiving a request for a media asset via a network, said request being received by at the a network interface;~~

~~receiving the request at the an adaptable cache at least partially inside said media server, said adaptable cache hot-swappably connected to the second input-output bus, said adaptable cache comprising a data interface, a core logic, and electronic storage media, and configured to:~~

~~dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server;~~

~~determine whether to retrieve and store data from the storage subsystem based on the algorithms and/or heuristics;~~

~~alter the storage size of the electronic storage media without disrupting the operation of the media server; and~~

~~retrieve data from the storage subsystem using its own data interface;~~

~~processing the request by the adaptable cache, wherein if the requested media asset is found on the electronic storage media, the media asset is returned to the user without accessing the one or more storage devices on the storage subsystem, and wherein if the requested media asset is not found on the electronic storage media, the media asset is~~

accessed from one or more storage devices on the storage subsystem and returned to the user;
and

monitoring, by the adaptable cache, requests for media assets;
determining, by the adaptable cache, whether select media assets should be cached;
transferring, by the adaptable cache, said select media assets from said one or more
storage devices to the electronic storage media; and,
notifying, by the adaptable cache, at least one requesting application that the
adaptable cache can accept future requests for said select media assets.

~~wherein the adaptable cache monitors requests for media assets, determines that select media assets should be cached, transfers said select media assets from one or more storage devices to the electronic storage media, and notifies a requesting application that the adaptable cache can accept future requests for said select media assets.~~

14. (Original) The method of claim 13, wherein the request is received at the adaptable cache via the second input-output bus.

15. (Original) The method of claim 13, wherein the adaptable cache integrates into the media server via an expansion card slot.

16. (Original) The method of claim 13, wherein if the requested media asset is not found on the electronic storage media, the adaptable cache stores the requested media asset on the electronic storage media.

17-18. (Canceled)

19. (Currently Amended) The method of claim 13, wherein ~~the adaptable cache monitors requests for media assets and if it is determined that the media should be cached, the adaptable cache notifies the storage subsystem to disregard requests to deliver the media.~~

20. (Currently Amended) The method of claim 13, wherein the adaptable cache integrates with native communications busses and protocols ~~existing on~~ used in the media server.

21. (Currently Amended) The method of claim 13, wherein the adaptable cache utilizes the busses and protocols ~~existing on~~ used in the media server.

22. (Currently Amended) A system for facilitating delivery of media resources, comprising:

a media server comprising a host processor, ~~a~~ at least one network interface, and a storage subsystem comprising one or more storage devices, the host processor and the at least one network interface being connected to a first input-output bus, the storage subsystem being connected to a second input-output bus, the first and second input-output buses being connected via a controller;

~~a hot swappable~~ an adaptable cache at least partially inside said media server, said adaptable cache hot-swappably connected to an input-output bus of the media server, and comprising a data interface, core logic configured to dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server, and electronic storage media, the adaptable cache being adapted to store data on the electronic storage media, and further being adapted to receive and process requests for media assets, wherein if the requested media asset is found on the electronic storage media, the media asset is returned ~~to~~ a requestor via one or more I/O buses, and wherein if the requested media asset is not found on the electronic storage media, the media asset is accessed from the storage subsystem and returned ~~to~~ the requestor, and wherein said adaptable cache is further adapted to monitor requests for media assets, determine that based at least in part on said cache operating characteristics whether select media assets should be cached, transfer said select media assets from one or more storage devices to the electronic storage media, and notify at least a requesting application that the adaptable cache can accept future requests for said select media assets.

23. (Currently Amended) A method for simulating passive monitoring of a bus by ~~a first component in~~ an adaptable cache means hot-swappably connected to said bus at least partially inside a media server, comprising:

identifying a ~~second~~ first component that transmits messages to a ~~third~~ second component, said messages desired to be monitored by ~~the first component~~, wherein said first

~~component comprises a hot swappable an adaptable cache means inside a media server, said adaptable cache hot swappably connected to a bus inside said media server, said adaptable cache comprising a data interface, a core logic configured to dynamically alter its operating characteristics by modification of a caching rule to account for asset request frequency without disconnecting said adaptable cache from the media server, and electronic storage media;~~

~~adapting the second first component to address the message to both the third second component and the first component adaptable cache means; and~~

~~monitoring, by the adaptable cache means, requests for media assets;
determining, by the adaptable cache means, whether select media assets should be cached;~~

~~transferring, by the adaptable cache means, said select media assets from one or more storage devices to the electronic storage media; and,~~

~~notifying, by the adaptable cache means, at least one requesting application that the adaptable cache can accept future requests for said select media assets.~~

~~wherein the adaptable cache monitors requests for media assets, determines that select media assets should be cached, transfers said select media assets from one or more storage devices to the electronic storage media, and notifies a requesting application that the adaptable cache can accept future requests for said select media assets.~~